

Energy & Water Development
Listed in alphabetical order by organization

Cities of Portland and South Portland, Maintenance Dredging of Portland Harbor, Portland ME – \$13,000,000

Portland Harbor is the largest commercial port in Maine, and one of the largest in New England. Dredging is needed to restore the 35-foot channel to authorized dimensions. The most recent maintenance dredging of this channel was done from November 1998 to April 1999. Since then, shoaling has occurred and approximately five rock ledge pinnacles projecting one to two feet above the 35-foot plane have been identified. Failure to remove the shoaling and pinnacles will hinder navigational access, restrict commerce, and compromise vessel safety.

Cobscook Bay Resource Center, Eastport Tidal Energy Project, Eastport, ME - \$1,000,000

To set the standard for future environmental monitoring requirements, increase knowledge about Maine's ocean environment by developing a public information exchange and dissemination capacity, and create sustainable ocean energy jobs for Maine.

Maine Department of Transportation, Phase I -Dredged Material Management Study for Southern Maine, York County, ME - \$200,000

To identify options for economic and environmentally sound disposal of dredged materials following closure on January 10, 2010 of the Cape Arundel Disposal Site- the only designated disposal site in southern Maine.

Maine Port Authority, Searsport Harbor Dredging Improvement, , Searsport, ME - \$450,000

To continue design work towards the deepening and widening of the Searsport Harbor channel to provide for the safe navigation of vessels moving into and out of Searsport.

Northern Maine Community College, Northern Maine Community College Wind Power Technology Program Equipment, Presque Isle, ME - \$1,500,000

This project will provide the necessary equipment to train wind power technicians, will help grow the wind power industry in Maine, and provide an in-state source for companies in the industry looking to hire trained technicians.

Town of Beals Harbor, Maintenance Dredging of existing authorized Federal Navigation Project at Beals Harbor, ME - \$2,500,000

Maintenance dredging of the harbor will return the Federal navigation projects to their authorized dimensions, and will eliminate the delay vessels currently encounter waiting for higher tides to safely return to home-port, or to unload their cargo.

Town of Chebeague Island, Stone Wharf Dredging Feasibility Study,, Chebeague Island, ME - \$200,000

Chebeague Island is an un-bridged island that relies on boat travel through a shallow channel at Stone Wharf to transport all rescue operations, and 125,000 ferry passengers annually. This includes commuting for schoolchildren, contractors, medical providers, police, teachers, and supplies. Without dredging there would be no access to the only town-owned wharf until high tide.

Town of Fort Kent, Maine, St. John and Fish Rivers, Maine Flood Study -- \$400,000

On April 29 – May 2, 2008, as a result of record rainfall and snowmelt, the St. John River and Fish River severely flooded Fort Kent, Maine. President Bush issued a major disaster declaration and the town continues to recover from the public and private infrastructure damages. The Army Corps of Engineers is restoring the damaged dike system that protected the downtown region, but it is clear that existing flood control infrastructure was inadequate for this historic level of flooding that Fort Kent experienced. Funds would go toward a flood control investigation that examines flood protection and improvements to the existing levee system.

University of Maine, Maine Tidal Power Initiative , Orono, ME - \$1,000,000

The Quoddy region in Maine has great commercial tidal energy potential. The proposed program will develop protocols to evaluate the environmental impacts of tidal energy and will develop a model monitoring system.

University of Maine, National Center for Deepwater Offshore Wind, Orono, ME - \$7,000,000

With 80 percent of homes using heating oil, the largest percentage of any state in the United States, Maine is the most vulnerable State in the nation to the rise of crude prices. By 2018 the cost of energy (the sum of gasoline plus heating oil plus electricity) will reach 40 percent of the Maine household income. This looming crisis could be the worst in the State's history. Funding will develop materials and technologies for offshore wind turbines, conduct detailed site analysis, resolve grid connectivity issues, and support efforts to construct a 20 MW pilot deepwater project along the coast of Maine.

University of Maine, Thermoplastic Composite Wind Blade Manufacturing Technologies, Orono, ME - \$3,000,000

Currently, the majority of composite windblades are manufactured in Asia and South America. However, the increasing demand for windblades offers an opportunity for

manufactures in Maine and the United States to compete in this market. Prominent wind energy developers are seeking local suppliers of composite windblades, with the rationale of reducing both the cost and carbon footprint associated with long-distance transportation of windblades from foreign manufacturers to windpower sites in the United States. To respond to this opportunity, the University of Maine's Composites Center has developed a technology commercialization plan for Next-Generation Composite Windblades. This plan includes the development of advanced manufacturing that would reduce production labor and time by up to 50 percent and a recyclable, thermoplastic composite windblade. This research has the potential to add hundreds of new jobs to Maine's distressed composite boatbuilding industry.

University of Southern Maine, The Wise Lab of Environmental and Genetic Toxicology of the Maine Center for Toxicology and Environmental Health -- \$1,750,000

The Maine Center for Toxicology and Environmental Health (MCTEH), established in 2002, promotes interactions working on environmental problems affecting human health. The requested funding will complete the Wise Laboratory of Environmental and Genetic Toxicology, making space available for other MCTEH faculty researchers. Until recently, Maine was the only state in New England without a university-based toxicology center to study the effects of environmental human health.

National Priorities

Department of Energy International Renewable Energy Program - \$25 million.

I urge you to provide the President's requested level of \$25 million for international collaboration on renewable energy and energy efficiency technologies, including \$2 million for the U.S.-Israel Energy Cooperation Program.

Department of Energy Weatherization Assistance Program (WAP) – \$263 million.

WAP is government's largest residential energy conservation program, and provides important assistance to low-income families facing high energy bills. Since the program's inception, more than 5.8 million homes have been weatherized using federal, state, utility and other monies. According to the National Association for State Community Services Programs, for every dollar spent, WAP returns \$2.72 in energy and non-energy benefits over the life of the weatherized home. On average, weatherization reduces heating bills by 32 percent and overall energy bills by \$358 per year. I urge you to provide the President's requested level of \$263 million for this vital program.

Department of Energy Wind Energy Program - \$123 million.

I urge you to provide the President's requested level of \$123 million for the Wind Energy Program, including at least \$49 million for offshore wind energy work, with an emphasis on deepwater technologies such as floating platforms. Deepwater offshore wind offers stronger and more consistent winds and can be placed out of sight of land, avoiding many complications and objections to near-shore or land-based wind. Sixty-one percent of U.S. wind resource is in deepwater, greater than 60 meters (197 feet) in depth, and close to major

population centers. Other countries are already ahead of the U.S. in developing this technology, so we must invest in developing these new technologies now.

Independent Agencies: Northern Border Regional Commission – at least \$1.5 million.

I urge you to provide an increase above the President's request for the Northern Border Regional Commission (NBRC). NBRC is a joint federal-state economic development commission that covers the most economically distressed portions of Maine, New Hampshire, Vermont and northern New York. For decades, the individuals living in the region have faced challenging economic circumstances that have resulted in the loss of jobs and businesses, as well as a lack of new opportunities for displaced workers and young people. The current economic recession has only deepened these troubles. NBRC is authorized at \$30 million. Any increase you can provide above the President's request would greatly help the people in the Northern Border region and would be used for timely and targeted projects. For example, Maine has projects ready to go that could be funded if an increase were provided.